

## **Low Volume Settling Ponds Sampling and Analysis Report**

The work consisted of conducting in-situ dredge material sampling and analytical laboratory analysis at Low Volume Settling Ponds (LVSP) C and D in accordance with the requirements of Condition I.F.11 of Possum Point Power Station's VPDES Permit (Permit No. VA0002071).

### **Project Background**

The LVSP are located southeast of the Possum Point Power Station near the inlet between Quantico Creek and the Potomac River. The LVSP consist of four separate ponds (A, B, C, and D) that slope to the southwest and eventually discharge into an outfall pipe (Outfall 004) into Quantico Creek. The ponds were previously used to collect runoff from the coal storage pile at the station, until coal combustion ceased in March 2003.

Based on initial evaluations of the ponds conducted by Dominion, only LVSP C and LVSP D require dredging as part of the closure activities. Materials to be dredged consist primarily of water backwash media and sand and coal pile runoff fines. Based on a review of available information concerning the pond dimensions, it is estimated that LVSP C contains approximately 4,100 cubic yards (CY) of material while LVSP D contains approximately 7,200 CY of material. The thickness of the dredge material is expected to vary at the bottom of each pond, but it is estimated that the average thickness is approximately two feet.

As part of potential clean closure construction activities for the LVSPs, material will be mechanically dredged from LVSP C and LVSP D and transported to Ash Pond D. In order to meet the requirements of Condition I.F.11 of the VPDES Permit, the dredge material was sampled and analyzed.

### **Scope of Work**

The LVSP sampling and laboratory analysis were completed in accordance with applicable state and federal guidelines, regulations, and requirements as applicable to the subsurface conditions encountered. The sampling and laboratory analysis evaluated the dredge material for comparison to criteria established under Condition I.F.11 of the VPDES Permit.

In accordance with Condition I.F.11 of the VPDES Permit, for volumes between 1,000 CY and 50,000 CY, two representative samples of dredge material are required. The samples should be a composite of the proposed dredge material to the depth of the intended dredge. Based on evaluation of the material thickness and pond dimensions, the combined dredge volume from LVSP C and LVSP D has been estimated to be approximately 11,300 CY. Using a volume estimate factor of 20% to account for additional volumes due to estimation error and over excavation of pond bottom material, the final estimated combined volume of dredge material for LVSP C and LVSP D is approximately 13,600 CY.

Based on an estimated 13,600 CY of combined dredge material, and in accordance with the requirements of two samples per dredge volume between 1,000 CY and 50,000 CY, a total of two representative samples of the planned dredge material volume were collected.

### **Sample Location Determination**

Sample locations were selected to provide a representative sample of the dredge materials that will be placed in Ash Pond D and based on available access to each pond with an extended arm backhoe. Approximate sample locations are depicted on the attached Figure 1 (Exhibit A) as dredged trenches excavated from each pond.

### **Sample Collection**

An extended arm backhoe was used to dredge two locations in each pond and recover dredge material for sample collection. The dredge trenches were excavated to a depth which penetrated the full thickness of the material and extended into the pond bottom material. For each pond, the two dredge samples were examined by the GAI field environmental scientist immediately after removal from the bucket, visually characterized, and inspected for the presence of staining, discoloration, separate-phase hydrocarbon product, or other visible indicators of contamination. The dredge samples were scanned with a photoionization detector (PID), calibrated to isobutylene, for the presence and concentration of volatile organic vapors.



GAI collected one environmental sample from each pond (LV C and LV D) for laboratory analyses to evaluate the proposed dredge material. The sample collected for laboratory analysis of all parameters, excluding the volatile organic fraction, was collected as a single composite from the two dredge trenches. A composite sample was collected by retaining a portion of each dredge sample retrieved from the backhoe bucket in a clean disposable container. The retained sample was transferred to a stainless steel mixing bowl and thoroughly mixed. The thoroughly mixed sample was then transferred in equal portions to appropriate laboratory supplied sample jars.

For collection of the volatile organic fraction, each dredge sample was visually examined for the presence of suspected impacts and screened with a PID. Soil samples for volatile organic analyses were selected from a discrete portion exhibiting the highest PID readings or other indicators of possible impacts. If no indicators of potential impacts were observed, the sample was collected from a randomly selected portion of the dredge material. Samples collected for the volatile organic fraction analyses were transferred into the appropriate laboratory provided sample jars or pre-preserved sample vials depending on the analyses required.

Equipment used for sample collection was properly decontaminated before use to prevent cross-contamination from prior sampling locations. Field sampling equipment used to collect or hold non-aqueous samples were decontaminated prior to use as follows:

1. Remove visible contamination from the equipment using a brush and/or paper towel saturated with potable water and laboratory grade soap.
2. Rinse the equipment with potable water to remove residual soap and solids.
3. Rinse the equipment with distilled/deionized water meeting ASTM Type II specifications.

#### Laboratory Analysis

Samples collected for laboratory analysis were properly labeled with the sampling time, date, and sample identification, and were immediately placed into an iced chest and maintained at four degrees Celsius. Samples were submitted, under chain of custody procedures, to ALS Environmental, a VA certified analytical laboratory, under a standard turn-around for results. Samples were submitted for analysis of the required parameters and using appropriate laboratory test methods as specified in Condition 11 of VPDES Permit No. VA0002071.

#### Reporting

Results of the completed laboratory analysis are presented in the attached Exhibit B. Analytical results are presented on the appropriate VPDES Permit No. VA0002071, Dredge Spoils Monitoring, Attachment B forms. The ALS laboratory analytical data reports providing all results for the submitted samples are provided in Exhibit C. Analytical results indicate all constituent concentrations are below applicable threshold values provided in Attachment B of VPDES Permit No. VA0002071.

**EXHIBIT A**  
**Figure 1 – Sample Locations**



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— Approximate Dredge Sample Location

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Not to Scale

Figure 1 - Sample Locations  
Low Volume Settling Ponds C and D  
Sampling and Analysis

**EXHIBIT B**  
**VPDES Permit No. VA0002071 Attachment B Forms**



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## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

## ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/l)	Reporting Results <sup>(1)</sup> (mg/l)	Sample Type <sup>(2)</sup>	Threshold Levels (mg/l)
<b>Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)</b>							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	< 2.8	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

\* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

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## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

## ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/kg)	Reporting Results <sup>(1)</sup> (mg/kg)	Sample Type <sup>(2)</sup>
<b>Metals (Part B.1)</b>						
178	7429-90-5	Antimony	6020A	2.6	< 2.6	G
457		Arsenic III	1632	0.346	1.78	G
441	16055-83-1	Chromium III	Calculation	6.1	35.6	G
231	18540-29-9	Chromium VI	7196A	5.9	< 5.9	G
442	744-50-8	Copper	6020A	6.5	272	G
445	7440-02-0	Nickel	6020A	6.5	71.6	G
	7440-28-0	Thallium	6020A	1.3	< 1.3	G
448	7440-66-6	Zinc	6020A	6.5	296	G
<b>Pesticides/PCB'S (Part B.2)</b>						
332	309-00-2	Aldrin	8081B	0.0254	< 0.0254	G
334		Chlorpyrifos Dursban	8141B	0.106	< 0.106	G
--	72-54-8	DDD	8081B	0.0494	< 0.0494	G
--	72-55-9	DDE	8081B	0.0494	< 0.0494	G
335	50-29-3	DDT	8081B	0.0494	< 0.0494	G
336	8065-48-3	Demeton	8141B	0.106	< 0.106	G
337	60-57-1	Dieldrin	8081B	0.0494	< 0.0494	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0254	< 0.0254	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0494	< 0.0494	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0494	< 0.0494	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0494	< 0.0494	G
340	86-50-0	Guthion	8141B	0.106	< 0.106	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0254	< 0.0254	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0254	< 0.0254	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0254	< 0.0254	G
--	143-50-0	Kepone	8270D	2.94	< 2.94	G
343	121-75-5	Malathion	8141B	0.106	< 0.106	G
345	2385-85-5	Mirex	8081B	0.0494	< 0.0494	G
346	56-38-2	Parathion	8141B	0.106	< 0.106	G
--	1336-36-3	Total PCB	8082A	0.099	< 0.099	G
641	53469-21-9	PCB-1242	8082A	0.099	< 0.099	G
642	11097-69-1	PCB-1254	8082A	0.099	< 0.099	G
643	11104-28-2	PCB-1221	8082A	0.099	< 0.099	G
644	11141-16-5	PCB-1232	8082A	0.099	< 0.099	G
645	12672-29-6	PCB-1248	8082A	0.099	< 0.099	G
618	11096-82-5	PCB-1260	8082A	0.099	< 0.099	G
646	12674-11-2	PCB-1016	8082A	0.099	< 0.099	G
<b>Base Neutral Extractable (Part B.3)</b>						
273	208-96-8	Acenaphthene	8270D	0.294	< 0.294	G
275	120-12-7	Anthracene	8270D	0.294	< 0.294	G
--	92-87-5	Benzidine	8270D	2.35	< 2.35	G
276	56-55-3	Benzo(a) anthracene	8270D	0.294	< 0.294	G

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## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

## ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/kg)	Reporting Results <sup>(1)</sup> (mg/kg)	Sample Type <sup>(2)</sup>
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.294	< 0.294	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.294	< 0.294	G
277	50-32-8	Benzo(a)pyrene	8270D	0.294	< 0.294	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.294	< 0.294	G
279	102-60-1	Bis 2-Chlororoiso-Propyl Ether	8270D	0.294	< 0.294	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.294	< 0.294	G
--	91-58-7	2-Chloronaphthalene	8270D	0.294	< 0.294	G
282	218-01-9	Chrysene	8270D	0.294	< 0.294	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.294	< 0.294	G
206	84-74-2	Dibutyl phthalate	8270D	0.294	< 0.294	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.294	< 0.294	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.294	< 0.294	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.440	< 0.440	G
285	84-66-2	Diethyl phthalate	8270D	0.294	< 0.294	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	8270D	0.294	< 0.294	G
286	131-11-3	Dimethyl Phthalate	8270D	0.294	< 0.294	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.294	< 0.294	G
287	206-44-0	Fluoranthene	8270D	0.294	< 0.294	G
288	86-73-7	Fluorene	8270D	0.294	< 0.294	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	0.793	< 0.793	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.294	< 0.294	G
650	78-59-1	Isophorone	8270D	0.294	< 0.294	G
293	91-20-3	Naphthalene	8270D	0.294	< 0.294	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.294	< 0.294	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.294	< 0.294	G
575	621-64-7	N-Nitrosodi-n-propylamine	8270D	0.294	< 0.294	G
296	129-00-0	Pyrene	8270D	0.294	< 0.294	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.294	< 0.294	G
<b>Volatiles (Part B.4)</b>						
171	107-02-8	Acrolein	8260B	0.131	< 0.131	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0262	< 0.0262	G
484	75-25-2	Bromoform	8260B	0.0052	< 0.0052	G
652	124-48-1	Chlorodibromomethane	8260B	0.0052	< 0.0052	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.0052	< 0.0052	G
244	75-27-4	Dichlorobromomethane	8260B	0.0052	< 0.0052	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.0052	< 0.0052	G
261	78-87-5	1,2-Dichloropropane	8260B	0.0052	< 0.0052	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichloropropylene)	8260B	0.0105	< 0.0105	G
172	100-41-4	Ethylbenzene	8260B	0.0052	< 0.0052	G
--	74-83-9	Methyl Bromide	8260B	0.0052	< 0.0052	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0262	< 0.0262	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.0052	< 0.0052	G

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## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

## ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond C - LV C

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/kg)	Reporting Results <sup>(1)</sup> (mg/kg)	Sample Type <sup>(2)</sup>
222	108-88-3	Toluene	8260B	0.0052	< 0.0052	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.0052	< 0.0052	G
155	79-01-6	Trichloroethylene	8260B	0.0052	< 0.0052	G
<b>Acids Extractable (part B.5)</b>						
267	95-57-8	2-Chlorophenol	8270D	0.793	< 0.793	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.587	< 0.587	G
269	105-67-9	2,4 Dimethylphenol	8270D	0.793	< 0.793	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	0.793	< 0.793	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.587	< 0.587	G
175	108-95-2	Phenol	8270D	0.793	< 0.793	G
<b>Miscellaneous (Part B.6)</b>						
018		Cyanide, Total	9012B	0.73	< 0.73	G
350		Tributyltin	Krone	0.0029	< 0.0029	G
257		TPH (Total petroleum Hydrocarbons)	9071B	605	5770	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

**Footnotes to Water Quality Monitoring Attachment B**

(1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

<sup>(2)</sup> Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported

<sup>(3)</sup> Any approved method presented in 40 CFR Part 136

<sup>(4)</sup> The QL is at the discretion of the premittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

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## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

## ATTACHMENT B, Page 1 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/l)	Reporting Results <sup>(1)</sup> (mg/l)	Sample Type <sup>(2)</sup>	Threshold Levels (mg/l)
<b>Toxicity Characteristics Leaching Procedure Parameters with Threshold Levels (Part A)</b>							
033	7440-38-2	Arsenic	1311	0.14	< 0.14	G	5.0
151	7440-39-3	Barium	1311	2.8	< 2.8	G	100.0
216	71-43-2	Benzene	1311	0.0200	< 0.0200	G	3.0
096	7440-43-9	Cadmium	1311	0.011	< 0.011	G	1.0
236	56-23-5	Carbon Tetrachloride	1311	0.0200	< 0.020	G	0.5
333	57-74-9	Chlordane	1311	0.0100	< 0.0100	G	0.03
280	108-90-7	Chlorobenzene	1311	0.0200	< 0.0200	G	100.0
223	67-66-3	Chloroform	1311	0.0200	< 0.0200	G	6.0
016	7440-47-3	Chromium	1311	0.028	< 0.028	G	5.0
510	95-48-7	o-Cresol *	1311	0.16	< 0.16	G	200.0
509-511		mp-Cresol *	1311	0.16	< 0.16	G	200.0
512		Cresols, Total	1311	0.16	< 0.16	G	200.0
266	106-46-7	1,4-Dichlorobenzene	1311	0.0600	< 0.0600	G	7.5
260	107-06-2	1,2-Dichloroethane	1311	0.0200	< 0.0200	G	0.5
258	75-35-4	1,1-Dichloroethylene	1311	0.0200	< 0.0200	G	0.7
239	121-14-2	2,4-Dinitrotoluene	1311	0.0600	< 0.0600	G	0.13
339	72-20-8	Endrin	1311	0.00050	< 0.00050	G	0.02
341	76-44-8	Heptachlor	1311	0.00050	< 0.00050	G	0.008
289	118-74-1	Hexachlorobenzene	1311	0.0600	< 0.0600	G	0.13
290	87-68-3	Hexachlorobutadiene	1311	0.0600	< 0.0600	G	0.5
291	67-72-1	Hexachloroethane	1311	0.0600	< 0.0600	G	5.0
034	7439-92-1	Lead	1311	0.033	< 0.033	G	5.0
342	58-89-9	Hexachlorocyclohexane (Lindane)	1311	0.00050	< 0.00050	G	0.4
042	7439-97-6	Mercury	1311	0.0020	< 0.0020	G	0.2
344	72-43-5	Methoxychlor	1311	0.00050	< 0.00050	G	10.0
	78-93-3	Methyl Ethyl Ketone	1311	0.2	< 0.2	G	200.0
294	98-95-3	Nitrobenzene	1311	0.0600	< 0.0600	G	2.0
210	87-86-5	Pentachlorophenol	1311	0.32	< 0.32	G	100.0
	110-86-1	Pyridine	1311	0.16	< 0.16	G	5.0
152	7782-49-2	Selenium	1311	0.11	< 0.11	G	1.0
037	7440-22-4	Silver	1311	0.022	< 0.022	G	5.0
220	127-18-4	Tetrachloroethylene	1311	0.0200	< 0.0200	G	0.7
349	8001-35-2	Toxaphene	1311	0.020	< 0.020	G	0.5
602	79-01-6	Trichloroethylene	1311	0.0200	< 0.0200	G	0.5
601	95-95-4	2,4,5-Trichlorophenol	1311	0.16	< 0.16	G	400
602	88-06-2	2,4,6-Trichlorophenol	1311	0.16	< 0.16	G	2.0
173	75-01-4	Vinyl Chloride	1311	0.0200	< 0.0200	G	0.2

\* If o-,m-,p-Cresol concentrations cannot be differentiated, the total cresol concentration is used.

00014458

## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

## ATTACHMENT B, Page 2 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/kg)	Reporting Results <sup>(1)</sup> (mg/kg)	Sample Type <sup>(2)</sup>
<b>Metals (Part B.1)</b>						
178	7429-90-5	Antimony	6020A	4.7	< 4.7	G
457		Arsenic III	1632	0.125	0.877	G
441	16055-83-1	Chromium III	Calculation	10	80.5	G
231	18540-29-9	Chromium VI	7196A	9.8	< 9.8	G
442	744-50-8	Copper	6020A	11.8	417	G
445	7440-02-0	Nickel	6020A	11.8	69.7	G
	7440-28-0	Thallium	6020A	2.4	< 2.4	G
448	7440-66-6	Zinc	6020A	11.8	440	G
<b>Pesticides/PCB'S (Part B.2)</b>						
332	309-00-2	Aldrin	8081B	0.0419	< 0.0419	G
334		Chlorpyrifos Dursban	8141B	0.172	< 0.172	G
--	72-54-8	DDD	8081B	0.0814	< 0.0814	G
--	72-55-9	DDE	8081B	0.0814	< 0.0814	G
335	50-29-3	DDT	8081B	0.0814	< 0.0814	G
336	8065-48-3	Demeton	8141B	0.172	< 0.172	G
337	60-57-1	Dieldrin	8081B	0.0814	< 0.0814	G
746	959-98-8	Alpha-Endosulfan	8081B	0.0419	< 0.0419	G
640	33213-65-9	Alpha-Endosulfan	8081B	0.0814	< 0.0814	G
617	1031-07-8	Endosulfan Sulfate	8081B	0.0814	< 0.0814	G
--	7421-93-4	Endrin Aldehyde	8081B	0.0814	< 0.0814	G
340	86-50-0	Guthion	8141B	0.172	< 0.172	G
--	1024-57-3	Heptachlor Epoxide	8081B	0.0419	< 0.0419	G
--	319-84-6	Hexachlorocyclohexane (Alpha-BHC)	8081B	0.0419	< 0.0419	G
--	319-85-7	Hexachlorocyclohexane (Beta-BHC)	8081B	0.0419	< 0.0419	G
--	143-50-0	Kepone	8270D	4.81	< 4.81	G
343	121-75-5	Malathion	8141B	0.172	< 0.172	G
345	2385-85-5	Mirex	8081B	0.0814	< 0.0814	G
346	56-38-2	Parathion	8141B	0.172	< 0.172	G
--	1336-36-3	Total PCB	8082A	0.16	< 0.16	G
641	53469-21-9	PCB-1242	8082A	0.16	< 0.16	G
642	11097-69-1	PCB-1254	8082A	0.16	< 0.16	G
643	11104-28-2	PCB-1221	8082A	0.16	< 0.16	G
644	11141-16-5	PCB-1232	8082A	0.16	< 0.16	G
645	12672-29-6	PCB-1248	8082A	0.16	< 0.16	G
618	11096-82-5	PCB-1260	8082A	0.16	< 0.16	G
646	12674-11-2	PCB-1016	8082A	0.16	< 0.16	G
<b>Base Neutral Extractable (Part B.3)</b>						
273	208-96-8	Acenaphthene	8270D	0.481	< 0.481	G
275	120-12-7	Anthracene	8270D	0.481	< 0.481	G
--	92-87-5	Benzidine	8270D	3.85	< 3.85	G
276	56-55-3	Benzo(a) anthracene	8270D	0.481	< 0.481	G

00014469

## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

ATTACHMENT B, Page 3 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/kg)	Reporting Results <sup>(1)</sup> (mg/kg)	Sample Type <sup>(2)</sup>
648	50-32-8	Benzo(b)fluoranthene (3,4-Bensofluoranthene)	8270D	0.481	< 0.481	G
278	207-08-9	Benzo(k) fluoranthene	8270D	0.481	< 0.481	G
277	50-32-8	Benzo(a)pyrene	8270D	0.481	< 0.481	G
--	111-44-4	Bis 2-Chloroethyl Ether	8270D	0.481	< 0.481	G
279	102-60-1	Bis 2-Chlororoiso-Propyl Ether	8270D	0.481	< 0.481	G
486	85-68-7	Butyl benzyl phthalate	8270D	0.481	< 0.481	G
--	91-58-7	2-Chloronaphthalene	8270D	0.481	< 0.481	G
282	218-01-9	Chrysene	8270D	0.481	< 0.481	G
654	53-70-3	Dibenz(a,h) anthracene	8270D	0.481	< 0.481	G
206	84-74-2	Dibutyl phthalate	8270D	0.481	< 0.481	G
259	95-50-1	1,2-Dichlorobenzene	8270D	0.481	< 0.481	G
264	541-73-1	1,3-Dichlorobenzene	8270D	0.481	< 0.481	G
527	91-94-1	3,3-Dichlorobenzidine	8270D	0.721	< 0.721	G
285	84-66-2	Diethyl phthalate	8270D	0.481	< 0.481	G
170	117-81-7	Di-2-Ethylhexyl Phthalate (Bis (2-Ethylhexyl) Phthalate)	8270D	0.481	< 0.481	G
286	131-11-3	Dimethyl Phthalate	8270D	0.481	< 0.481	G
535	122-66-7	1,2-Dihenylhydrazine	8270D	0.481	< 0.481	G
287	206-44-0	Fluoranthene	8270D	0.481	0.768	G
288	86-73-7	Fluorene	8270D	0.481	< 0.481	G
538	77-47-4	Hexachlorocyclopentadiene	8270D	1.30	< 01.30	G
651	193-39-5	Indeno (1,2,3-cd) pyrene	8270D	0.481	< 0.481	G
650	78-59-1	Isophorone	8270D	0.481	< 0.481	G
293	91-20-3	Naphthalene	8270D	0.481	< 0.481	G
573	62-75-9	N-Nitrosodimethylamine	8270D	0.481	< 0.481	G
574	86-30-6	N-Nitrosodiphenylamine	8270D	0.481	< 0.481	G
575	621-64-7	N-Nitrosodi-n-propylamine	8270D	0.481	< 0.481	G
296	129-00-0	Pyrene	8270D	0.481	0.67	G
263	129-82-1	1,2,4 Trichlorobenzene	8270D	0.481	< 0.481	G
<b>Volatiles (Part B.4)</b>						
171	107-02-8	Acrolein	8260B	0.201	< 0.201	G
204	107-13-1	Acrylonitrile (Vinyl Cyanide)	8260B	0.0402	< 0.0402	G
484	75-25-2	Bromoform	8260B	0.008	< 0.008	G
652	124-48-1	Chlorodibromomethane	8260B	0.008	< 0.008	G
649	75-09-2	Dichloromethane (Methylene chloride)	8260B	0.008	< 0.008	G
244	75-27-4	Dichlorobromomethane	8260B	0.008	< 0.008	G
262	156-60-5	Trans 1,2-Dichloroethylene	8260B	0.008	< 0.008	G
261	78-87-5	1,2-Dichloropropane	8260B	0.008	< 0.008	G
265	542-75-6	1,3-Dichloropropene (1,3-Dichloropropylene)	8260B	0.0161	< 0.0161	G
172	100-41-4	Ethylbenzene	8260B	0.008	< 0.008	G
--	74-83-9	Methyl Bromide	8260B	0.008	< 0.008	G
--	78-93-3	2-Butanone (Methyl Ethyl Ketone (MEK))	8260B	0.0402	< 0.0402	G
596	79-34-5	1,1,2,2-Tetrachloroethane	8260B	0.008	< 0.008	G

00014450

## DEPARTMENT OF ENVIRONMENTAL QUALITY

## Dredge Spoils Monitoring

## ATTACHMENT B, Page 4 of 4

FACILITY NAME: Virginia Power - Possum Point

VPEDS PERMIT NO.: VA0002071

DATE: July 10, 2015

PROJECT: Low Volume Pond D - LV D

DEQ Parameter No.	EPA CAS Number	Parameter	EPA Analysis No.	Quantification Level <sup>(1)</sup> (mg/kg)	Reporting Results <sup>(1)</sup> (mg/kg)	Sample Type <sup>(2)</sup>
222	108-88-3	Toluene	8260B	0.008	< 0.008	G
373	79-00-5	1,1,2-Trichloroethane	8260B	0.008	< 0.008	G
155	79-01-6	Trichloroethylene	8260B	0.008	< 0.008	G
<b>Acids Extractable (part B.5)</b>						
267	95-57-8	2-Chlorophenol	8270D	1.3	< 1.3	G
268	120-83-2	2,4 Dichlorophenol	8270D	0.962	< 0.962	G
269	105-67-9	2,4 Dimethylphenol	8270D	1.3	< 1.3	G
--	534-52-1	2-Methyl-2,4-Dinitrophenol (4,6-Dinitro-O-Cresol)	8270D	1.3	< 1.3	G
270	51.28-5	2,4 Dinitrophenol	8270D	0.962	< 0.962	G
175	108-95-2	Phenol	8270D	1.3	< 1.3	G
<b>Miscellaneous (Part B.6)</b>						
018		Cyanide, Total	9012B	1.3	< 1.3	G
350		Tributyltin	Krone	0.0052	< 0.0052	G
257		TPH (Total petroleum Hydrocarbons)	9071B	980	6620	G

I certify under penalty of the law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine or imprisonment for knowing violations. See 18 U.S.C. §1001 and 33 U.S.C. §1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

Name of Principal Executive Officer or Authorized Agent

Title

Signature of Principal Executive Officer or Authorized Agent

Date

**Footnotes to Water Quality Monitoring Attachment B**

<sup>(1)</sup> Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level and the specific target value are micrograms/liter (mg/l) or micrograms/kilogram (mg/kg) unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained. Data reported by the lab as less than the test method QL shall be reported as "<(QL)" on the Attachment B form, where the actual test method QL shall be substituted for "(QL)".

<sup>(2)</sup> Sample Type:

G= Grab- An individual sample collected in less than fifteen (15) minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported

<sup>(3)</sup> Any approved method presented in 40 CFR Part 136

<sup>(4)</sup> The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.

00014453

**EXHIBIT C**  
**Analytical Laboratory Reports**



00014452



34 Dogwood Lane ■ Middletown, PA 17057 ■ Phone: 717-944-5541 ■ Fax: 717-944-1430 ■ [www.alsglobal.com](http://www.alsglobal.com)

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

July 9, 2015

Mr. Ed Sciulli  
GAI Consultants  
385 E. Waterfront Dr.  
Homestead, PA 15120

## Certificate of Analysis

Revised Report - 7/9/2015 11:20:00 AM - See workorder comment section for explanation

Project Name:	<b>2015-VIRGINIA POWER-POSSUM</b>	Workorder:	<b>2076025</b>
Purchase Order:		Workorder ID:	<b>Dominion Possum Point</b>

Dear Mr. Sciulli:

Enclosed are the analytical results for samples received by the laboratory on Wednesday, June 10, 2015.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Ms. Shannon Butler (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at [www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads](http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads).

This laboratory report may not be reproduced, except in full, without the written approval of ALS Environmental.

ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

CC: Ms. Katie Tuite

*Shannon Butler*  
Ms. Shannon Butler  
Project Coordinator

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## SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2076025001	ABC 2 Grab	Solid	6/9/2015 11:00	6/10/2015 19:50	Collected by Client
2076025002	ABC 2 Comp	Solid	6/9/2015 11:15	6/10/2015 19:50	Collected by Client
2076025003	ABC 3 Grab	Solid	6/9/2015 09:00	6/10/2015 19:50	Collected by Client
2076025004	ABC 3 Comp	Solid	6/9/2015 09:15	6/10/2015 19:50	Collected by Client
2076025005	ABC 4 Grab	Solid	6/9/2015 12:45	6/10/2015 19:50	Collected by Client
2076025006	ABC 4 Comp	Solid	6/9/2015 13:00	6/10/2015 19:50	Collected by Client
2076025007	Low Volume C Grab	Solid	6/10/2015 10:00	6/10/2015 19:50	Collected by Client
2076025008	Low Volume C Comp	Solid	6/10/2015 10:05	6/10/2015 19:50	Collected by Client
2076025009	Low Volume D Grab	Solid	6/10/2015 10:10	6/10/2015 19:50	Collected by Client
2076025010	Low Volume D Comp	Solid	6/10/2015 10:15	6/10/2015 19:50	Collected by Client

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## SAMPLE SUMMARY

Workorder: 2076025 Dominion Possum Point

### Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are preformed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".

### Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)

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## PROJECT SUMMARY

Workorder: 2076025 Dominion Possum Point

### Workorder Comments

See attached subcontracted tributyltin results from ALS-Kelso. VLF 7/7/15

See attached subcontracted trivalent arsenic results from Brooks Rand. VLF 7/7/15

This report was modified on 7/7/15 to attach subcontracting and add PCB. VLF

### Sample Comments

**Lab ID:** 2076025002      **Sample ID:** ABC 2 Comp      **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

**Lab ID:** 2076025004      **Sample ID:** ABC 3 Comp      **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

**Lab ID:** 2076025005      **Sample ID:** ABC 4 Grab      **Sample Type:** SAMPLE

One or more of the method 8260 internal standards were recovered outside of the control limits. The sample was re-analyzed with similar results, indicating a significant matrix interference.

**Lab ID:** 2076025006      **Sample ID:** ABC 4 Comp      **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

**Lab ID:** 2076025008      **Sample ID:** Low Volume C Comp      **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

**Lab ID:** 2076025010      **Sample ID:** Low Volume D Comp      **Sample Type:** SAMPLE

This sample was analyzed at a dilution in the 8081 Pesticide analysis due to sample matrix interference. Reporting limits were adjusted accordingly.

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025001</b>	Date Collected:	6/9/2015 11:00	Matrix:	Solid
Sample ID:	<b>ABC 2 Grab</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By Cntr
<b>TCLP VOLATILE ORGANICS</b>								
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 08:25	JPA D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
Trichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:25	JPA D
<b>Surrogate Recoveries</b>								
1,2-Dichloroethane-d4 (S)	98.6		%	62 - 133	SW846 8260B		6/18/15 08:25	JPA D
4-Bromofluorobenzene (S)	86.9		%	79 - 114	SW846 8260B		6/18/15 08:25	JPA D
Dibromofluoromethane (S)	98.5		%	78 - 116	SW846 8260B		6/18/15 08:25	JPA D
Toluene-d8 (S)	97.7		%	76 - 127	SW846 8260B		6/18/15 08:25	JPA D
<b>VOLATILE ORGANICS</b>								
Acrolein	ND		ug/kg	47.5	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Acrylonitrile	ND		ug/kg	9.5	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Bromodichloromethane	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Bromoform	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Bromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
2-Butanone	ND		ug/kg	9.5	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Chlorodibromomethane	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
trans-1,2-Dichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
1,2-Dichloropropane	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
1,3-Dichloropropene, Total	ND		ug/kg	3.8	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Ethylbenzene	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Methylene Chloride	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Toluene	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
1,1,2-Trichloroethane	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Trichloroethene	ND		ug/kg	1.9	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
<b>Surrogate Recoveries</b>								
1,2-Dichloroethane-d4 (S)	101		%	56 - 124	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
4-Bromofluorobenzene (S)	116		%	51 - 128	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A
Dibromofluoromethane (S)	114		%	62 - 123	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025001** Date Collected: 6/9/2015 11:00 Matrix: Solid  
Sample ID: **ABC 2 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Toluene-d8 (S)	108		%	59 - 131	SW846 8260B	6/9/15 JPA	6/11/15 13:06	JPA	A
<b>WET CHEMISTRY</b>									
Moisture	41.9		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	58.1		%	0.1	S2540G-11		6/11/15 09:19	JP	A

Ms. Shannon Butler  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025002</b>	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	<b>ABC 2 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>SEMIVOLATILES</b>								
Acenaphthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Anthracene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzidine	ND		ug/kg	1310	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(a)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(a)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(b)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Benzo(k)fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Butylbenzylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2-Chloronaphthalene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2-Chlorophenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Chrysene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Di-n-Butylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
1,2-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
1,3-Dichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	246	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2,4-Dichlorophenol	ND		ug/kg	328	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Diethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2,4-Dimethylphenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Dimethylphthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2,4-Dinitrophenol	ND		ug/kg	328	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Fluoranthene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Fluorene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Isophorone	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Kepone	ND		ug/kg	1640	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Naphthalene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
N-Nitrosodimethylamine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A
Phenol	ND		ug/kg	442	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025002</b>	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	<b>ABC 2 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	164	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	85.2		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	88.3		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	70.6		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	72.2		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	65.6		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	65.4		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	72		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	69.9		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	70.1		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	67.1		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
Terphenyl-d14 (S)	77.7		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Terphenyl-d14 (S)	72.5		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 15:36	CGS	A
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1016	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1221	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1232	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025002</b>	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	<b>ABC 2 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Aroclor-1242	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1248	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1254	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Aroclor-1260	ND		mg/kg	0.057	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared</b>	<b>By</b>	<b>Analyzed</b>	<b>By</b>
Decachlorobiphenyls (S)	187	1	%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
Tetrachloro-m-xylene (S)	112		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 14:59	EGO	
<b>PESTICIDES</b>									
Aldrin	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
alpha-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
beta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
delta-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
gamma-BHC	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
alpha-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
gamma-Chlordane	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
4,4'-DDD	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
4,4'-DDE	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
4,4'-DDT	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Dieldrin	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endosulfan I	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endosulfan II	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endrin	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endrin Aldehyde	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Endrin Ketone	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Heptachlor	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.6	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Methoxychlor	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Mirex	ND		ug/kg	28.3	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Toxaphene	ND		ug/kg	111	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared</b>	<b>By</b>	<b>Analyzed</b>	<b>By</b>
Decachlorobiphenyls (S)	70.2		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
Tetrachloro-m-xylene (S)	54.8		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 18:55	RWS	A
<b>ORGANOPHOSPHORUS COMPOUNDS</b>									
Acetochlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Alachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid  
Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Atrazine	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Azinphos Methyl	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Bolstar	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Bromacil	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Butachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Chlorpyrifos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Coumaphos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Cyanizine	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Demeton	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Diazinon	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Dichlorovos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Dimethoate	ND		ug/kg	77.6	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
EPN	ND		ug/kg	104	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Ethoprop	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Fensulfothion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Fenthion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Malathion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Methyl Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Metolachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Metribuzin	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Mevinphos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Molinate	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Parathion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Phorate	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Prometon	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Propachlor	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Ronnel	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Simazine	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
Sulfotep	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Tetrachlorinphos	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Tokuthion	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Trichloronate	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
Trifluralin	ND		ug/kg	60.4	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>

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State Certifications: DE ID 11, MAPA0102, MD 128, VA 460157, WV 343

## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025002</b>	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	<b>ABC 2 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	38.5		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 20:15	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	56		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	40		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 04:29	KJH	A
<b>WET CHEMISTRY</b>									
Cyanide, Total	ND		mg/kg	0.44	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	819		mg/kg	349	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	42.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	349	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	58.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
<b>METALS</b>									
Trivalent Chromium	ND		mg/kg	3.5	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	0.16		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Arsenic, Total	2.9		mg/kg	0.16	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Chromium, Total	0.61		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Copper, Total	1.7		mg/kg	0.27	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Nickel, Total	0.73		mg/kg	0.27	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Thallium, Total	ND		mg/kg	0.053	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
Zinc, Total	1.1		mg/kg	0.27	SW846 6020A	6/14/15 JPS	6/15/15 06:09	ZMC	A1
<b>TCLP METALS</b>									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Barium, Total	3.8		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:55	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:07	SRT	A3
<b>TCLP SEMI-VOLATILES</b>									
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025002</b>	Date Collected:	6/9/2015 11:15	Matrix:	Solid
Sample ID:	<b>ABC 2 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
<b>Surrogate Recoveries</b>									
2,4,6-Tribromophenol (S)	68.1		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2-Fluorobiphenyl (S)	65.9		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
2-Fluorophenol (S)	44.8		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Nitrobenzene-d5 (S)	69.2		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Phenol-d5 (S)	28		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
Terphenyl-d14 (S)	78.5		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 14:08	GEC	A
<b>TCLP PESTICIDES</b>									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	56.4		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
Tetrachloro-m-xylene (S)	81.1		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 14:26	RWS	A
<b>TCLP HERBICIDES</b>									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 17:45	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 17:45	KJH	A
<b>Surrogate Recoveries</b>									
2,4-Dichlorophenylacetic acid (S)	105		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 17:45	KJH	A
<b>SUBCONTRACTED ANALYSIS</b>									
Subcontracted Analysis	See attached				Subcontract		6/16/15 00:00	SUB	E

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025002** Date Collected: 6/9/2015 11:15 Matrix: Solid  
Sample ID: **ABC 2 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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Ms. Shannon Butler  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025003</b>	Date Collected:	6/9/2015 09:00	Matrix:	Solid
Sample ID:	<b>ABC 3 Grab</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr	
<b>TCLP VOLATILE ORGANICS</b>										
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 08:43	JPA	D	
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Trichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:43	JPA	D	
<b>Surrogate Recoveries</b>										
1,2-Dichloroethane-d4 (S)	97.4		%	62 - 133	SW846 8260B		6/18/15 08:43	JPA	D	
4-Bromofluorobenzene (S)	85.5		%	79 - 114	SW846 8260B		6/18/15 08:43	JPA	D	
Dibromofluoromethane (S)	95.6		%	78 - 116	SW846 8260B		6/18/15 08:43	JPA	D	
Toluene-d8 (S)	96.8		%	76 - 127	SW846 8260B		6/18/15 08:43	JPA	D	
<b>VOLATILE ORGANICS</b>										
Acrolein	ND		ug/kg	52.9	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Acrylonitrile	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromodichloromethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromoform	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Bromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
2-Butanone	ND		ug/kg	10.6	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Chlorodibromomethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,2-Dichloropropane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	4.2	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Ethylbenzene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Methylene Chloride	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Toluene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Trichloroethene	ND		ug/kg	2.1	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
<b>Surrogate Recoveries</b>										
1,2-Dichloroethane-d4 (S)	110		%	56 - 124	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
4-Bromofluorobenzene (S)	122		%	51 - 128	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A
Dibromofluoromethane (S)	122		%	62 - 123	SW846 8260B	6/9/15	JPA	6/11/15 13:29	JPA	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025003** Date Collected: 6/9/2015 09:00 Matrix: Solid  
Sample ID: **ABC 3 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
Toluene-d8 (S)	117		%	59 - 131	SW846 8260B	6/9/15 JPA	6/11/15 13:29 JPA	A
<b>WET CHEMISTRY</b>								
Moisture	40.8		%	0.1	S2540G-11		6/11/15 09:19 JP	A
Total Solids	59.2		%	0.1	S2540G-11		6/11/15 09:19 JP	A

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Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid  
Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>SEMIVOLATILES</b>								
Acenaphthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Anthracene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzidine	ND		ug/kg	1440	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(a)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(a)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(b)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Benzo(k)fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Butylbenzylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2-Chloronaphthalene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2-Chlorophenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Chrysene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Di-n-Butylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
1,2-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
1,3-Dichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	269	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2,4-Dichlorophenol	ND		ug/kg	359	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Diethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2,4-Dimethylphenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Dimethylphthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2,4-Dinitrophenol	ND		ug/kg	359	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Fluoranthene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Fluorene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Isophorone	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Kepone	ND		ug/kg	1790	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Naphthalene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
N-Nitrosodimethylamine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A
Phenol	ND		ug/kg	484	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS A

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025004</b>	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	<b>ABC 3 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	179	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	79.3		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	82.3		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	70.8		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	72.4		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	64.3		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	63.6		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
Nitrobenzene-d5 (S)	70.1		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	72.2		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	63.4		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	65.8		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
Terphenyl-d14 (S)	65.3		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Terphenyl-d14 (S)	70		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:00	CGS	A
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1016	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1221	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1232	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1242	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1248	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025004</b>	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	<b>ABC 3 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Aroclor-1254	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Aroclor-1260	ND		mg/kg	0.059	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	119		%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
Tetrachloro-m-xylene (S)	82.4		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:11	EGO	
<b>PESTICIDES</b>									
Aldrin	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
alpha-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
beta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
delta-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
gamma-BHC	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
alpha-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
gamma-Chlordane	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
4,4'-DDD	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
4,4'-DDE	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
4,4'-DDT	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Dieldrin	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endosulfan I	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endosulfan II	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endosulfan Sulfate	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endrin	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endrin Aldehyde	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Endrin Ketone	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Heptachlor	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Heptachlor Epoxide	ND		ug/kg	15.3	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Methoxychlor	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Mirex	ND		ug/kg	29.6	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Toxaphene	ND		ug/kg	117	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	62.4		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
Tetrachloro-m-xylene (S)	43.8		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:10	RWS	A
<b>ORGANOPHOSPHORUS COMPOUNDS</b>									
Acetochlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Alachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Atrazine	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Azinphos Methyl	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025004</b>	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	<b>ABC 3 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Bolstar	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Bromacil	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Butachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Chlorpyrifos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Coumaphos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Cyanazine	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Demeton	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Diazinon	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Dichlorvos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Dimethoate	ND		ug/kg	80.2	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
EPN	ND		ug/kg	107	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Ethoprop	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Fensulfothion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Fenthion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Malathion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Methyl Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Metolachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Metribuzin	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Mevinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Molinate	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Parathion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Phorate	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Prometon	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Propachlor	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Ronnel	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Simazine	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
Sulfotep	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Tetrachlorinphos	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Tokuthion	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Trichloronate	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
Trifluralin	ND		ug/kg	62.4	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	38.3		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 19:12	EGO	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025004</b>	Date Collected:	6/9/2015 09:15	Matrix:	Solid
Sample ID:	<b>ABC 3 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
<b>Surrogate Recoveries</b>									
IS_Triphenylphosphate (S)	65.5		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
<b>Surrogate Recoveries</b>									
IS_Triphenylphosphate (S)	55.7		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 03:52	KJH	A
<b>WET CHEMISTRY</b>									
Cyanide, Total	ND		mg/kg	0.46	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	805		mg/kg	366	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	3.5	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	45.4		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	ND		mg/kg	366	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	54.6		%	0.1	S2540G-11		6/11/15 09:19	JP	A
<b>METALS</b>									
Trivalent Chromium	ND		mg/kg	3.7	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	0.13		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Arsenic, Total	3.1		mg/kg	0.17	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Chromium, Total	0.80		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Copper, Total	2.0		mg/kg	0.28	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Nickel, Total	0.70		mg/kg	0.28	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Thallium, Total	ND		mg/kg	0.057	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
Zinc, Total	1.6		mg/kg	0.28	SW846 6020A	6/14/15 JPS	6/15/15 06:13	ZMC	A1
<b>TCLP METALS</b>									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Barium, Total	3.9		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:56	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:10	SRT	A3
<b>TCLP SEMI-VOLATILES</b>									
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid  
Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
<b>Surrogate Recoveries</b>									
2,4,6-Tribromophenol (S)	68.6		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
2-Fluorobiphenyl (S)	65.4		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
2-Fluorophenol (S)	47.9		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Nitrobenzene-d5 (S)	69.7		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Phenol-d5 (S)	30.6		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
Terphenyl-d14 (S)	78.1		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 13:44	GEC	A
<b>TCLP PESTICIDES</b>									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	61.2		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
Tetrachloro-m-xylene (S)	76.8		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 14:42	RWS	A
<b>TCLP HERBICIDES</b>									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 15:53	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 15:53	KJH	A
<b>Surrogate Recoveries</b>									
2,4-Dichlorophenylacetic acid (S)	111		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 15:53	KJH	A
<b>SUBCONTRACTED ANALYSIS</b>									
Subcontracted Analysis	See attached				Subcontract			6/16/15 00:00	SUB E

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025004** Date Collected: 6/9/2015 09:15 Matrix: Solid  
Sample ID: **ABC 3 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr

Ms. Shannon Butler  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025005</b>	Date Collected:	6/9/2015 12:45	Matrix:	Solid
Sample ID:	<b>ABC 4 Grab</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>TCLP VOLATILE ORGANICS</b>								
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 07:34	JPA D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
Tetrachloroethylene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
Trichloroethylene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:34	JPA D
<b>Surrogate Recoveries</b>								
1,2-Dichloroethane-d4 (S)	93.7		%	62 - 133	SW846 8260B		6/18/15 07:34	JPA D
4-Bromofluorobenzene (S)	84.9		%	79 - 114	SW846 8260B		6/18/15 07:34	JPA D
Dibromofluoromethane (S)	93.2		%	78 - 116	SW846 8260B		6/18/15 07:34	JPA D
Toluene-d8 (S)	94.8		%	76 - 127	SW846 8260B		6/18/15 07:34	JPA D
<b>VOLATILE ORGANICS</b>								
Acrolein	ND		ug/kg	41.0	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Acrylonitrile	ND		ug/kg	8.2	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Bromodichloromethane	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Bromoform	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Bromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
2-Butanone	ND		ug/kg	8.2	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Chlorodibromomethane	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
trans-1,2-Dichloroethene	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
1,2-Dichloropropane	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
1,3-Dichloropropene, Total	ND		ug/kg	3.3	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Ethylbenzene	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Methylene Chloride	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Toluene	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
1,1,2-Trichloroethane	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Trichloroethylene	ND		ug/kg	1.6	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
<b>Surrogate Recoveries</b>								
1,2-Dichloroethane-d4 (S)	182	7	%	56 - 124	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
4-Bromofluorobenzene (S)	138	9	%	51 - 128	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C
Dibromofluoromethane (S)	201	6	%	62 - 123	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP C

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025005** Date Collected: 6/9/2015 12:45 Matrix: Solid  
Sample ID: **ABC 4 Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Toluene-d8 (S)	202	8	%	59 - 131	SW846 8260B	6/9/15 TMP	6/12/15 18:02	TMP	C
<b>WET CHEMISTRY</b>									
Moisture	45.8		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	54.2		%	0.1	S2540G-11		6/11/15 09:19	JP	A

Ms. Shannon Butler  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid  
Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>SEMIVOLATILES</b>								
Acenaphthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Anthracene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzidine	ND		ug/kg	1330	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(a)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(a)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(b)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Benzo(k)fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Butylbenzylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2-Chloronaphthalene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2-Chlorophenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Chrysene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Di-n-Butylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
1,2-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
1,3-Dichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	250	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2,4-Dichlorophenol	ND		ug/kg	333	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Diethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2,4-Dimethylphenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Dimethylphthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2,4-Dinitrophenol	ND		ug/kg	333	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Fluoranthene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Fluorene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Isophorone	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Kepone	ND		ug/kg	1660	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Naphthalene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
N-Nitrosodimethylamine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A
Phenol	ND		ug/kg	449	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025006</b>	Date Collected:	6/9/2015 13:00	Matrix:	Solid
Sample ID:	<b>ABC 4 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	166	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	82.9		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	86		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
2-Fluorobiphenyl (S)	76.2		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorobiphenyl (S)	74.5		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
2-Fluorophenol (S)	64.5		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorophenol (S)	63.8		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
Nitrobenzene-d5 (S)	74		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
Nitrobenzene-d5 (S)	76.2		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
Phenol-d5 (S)	64.7		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
Phenol-d5 (S)	62.9		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
Terphenyl-d14 (S)	80.6		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<i>Surrogate Recoveries</i>									
Terphenyl-d14 (S)	75.2		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:24	CGS	A
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1016	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1221	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1232	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1242	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1248	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1254	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
Aroclor-1260	ND		mg/kg	0.056	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
<i>Surrogate Recoveries</i>									
Decachlorobiphenyls (S)	113		%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid  
Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Tetrachloro-m-xylene (S)	84.8		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:23	EGO	
<b>PESTICIDES</b>									
Aldrin	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
alpha-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
beta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
delta-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
gamma-BHC	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
alpha-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
gamma-Chlordane	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
4,4'-DDD	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
4,4'-DDE	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
4,4'-DDT	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Dieldrin	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endosulfan I	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endosulfan II	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endosulfan Sulfate	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endrin	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endrin Aldehyde	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Endrin Ketone	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Heptachlor	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Heptachlor Epoxide	ND		ug/kg	14.4	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Methoxychlor	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Mirex	ND		ug/kg	28.0	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Toxaphene	ND		ug/kg	110	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	53.2		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
Tetrachloro-m-xylene (S)	52		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:26	RWS	A
<b>ORGANOPHOSPHORUS COMPOUNDS</b>									
Acetochlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Alachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Atrazine	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Azinphos Methyl	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Bolstar	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Bromacil	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Butachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Chlorpyrifos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Coumaphos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid  
Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Cyanizine	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Demeton	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Diazinon	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Dichlorovos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
O,O-Diethyl O-pyrazinylphosphor Dimethoate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
EPN	ND		ug/kg	99.2	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Ethoprop	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Fensulfothion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Fenthion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Malathion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Methyl Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Metolachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Metribuzin	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Mevinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Molinate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Parathion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Phorate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Prometon	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Propachlor	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Ronnel	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Simazine	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
Sulfotep	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Tetrachlorinphos	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Tokuthion	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Trichloronate	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
Trifluralin	ND		ug/kg	57.8	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	47.8		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 20:46	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	72.1		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	48		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:06	KJH	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025006</b>	Date Collected:	6/9/2015 13:00	Matrix:	Solid
Sample ID:	<b>ABC 4 Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>WET CHEMISTRY</b>								
Cyanide, Total	ND		mg/kg	0.42	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF A
Hexane Extractable Material	605		mg/kg	336	SW846 9071B		6/21/15 12:30	AT A
Hexavalent Chromium	ND		mg/kg	3.4	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB A
Moisture	41.1		%	0.1	S2540G-11		6/11/15 09:19	JP A
Silica Gel Treated HEM	ND		mg/kg	336	SW846 9071B		6/21/15 12:30	AT A
Total Solids	58.9		%	0.1	S2540G-11		6/11/15 09:19	JP A
<b>METALS</b>								
Trivalent Chromium	ND		mg/kg	3.4	Calculation		6/25/15 16:23	JWB A
Antimony, Total	0.21		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Arsenic, Total	3.9		mg/kg	0.16	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Chromium, Total	0.69		mg/kg	0.11	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Copper, Total	2.1		mg/kg	0.26	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Nickel, Total	0.85		mg/kg	0.26	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Thallium, Total	0.059		mg/kg	0.053	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
Zinc, Total	0.87		mg/kg	0.26	SW846 6020A	6/14/15 JPS	6/15/15 06:28	ZMC A1
<b>TCLP METALS</b>								
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Barium, Total	3.7		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:57	MNP A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
Silver, Total	0.24		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:14	SRT A3
<b>TCLP SEMI-VOLATILES</b>								
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025006** Date Collected: 6/9/2015 13:00 Matrix: Solid  
Sample ID: **ABC 4 Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
<b>Surrogate Recoveries</b>									
2,4,6-Tribromophenol (S)	62.2		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
2-Fluorobiphenyl (S)	55		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
2-Fluorophenol (S)	36.6		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
Nitrobenzene-d5 (S)	56.8		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
Phenol-d5 (S)	23.3		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
Terphenyl-d14 (S)	76.2		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 14:32	GEC	A
<b>TCLP PESTICIDES</b>									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	52.8		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
Tetrachloro-m-xylene (S)	64.8		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 14:58	RWS	A
<b>TCLP HERBICIDES</b>									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 18:22	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 18:22	KJH	A
<b>Surrogate Recoveries</b>									
2,4-Dichlorophenylacetic acid (S)	119		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 18:22	KJH	A

**SUBCONTRACTED ANALYSIS**

Subcontracted Analysis See attached Subcontract 6/16/15 00:00 SUB E



Ms. Shannon Butler  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025007</b>	Date Collected:	6/10/2015 10:00	Matrix:	Solid
Sample ID:	<b>Low Volume C Grab</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
<b>TCLP VOLATILE ORGANICS</b>									
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 07:51	JPA	D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Trichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 07:51	JPA	D
<i>Surrogate Recoveries</i>									
1,2-Dichloroethane-d4 (S)	96.8		%	62 - 133	SW846 8260B		6/18/15 07:51	JPA	D
4-Bromofluorobenzene (S)	84.8		%	79 - 114	SW846 8260B		6/18/15 07:51	JPA	D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B		6/18/15 07:51	JPA	D
Toluene-d8 (S)	96		%	76 - 127	SW846 8260B		6/18/15 07:51	JPA	D
<b>VOLATILE ORGANICS</b>									
Acrolein	ND		ug/kg	131	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Acrylonitrile	ND		ug/kg	26.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Bromodichloromethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Bromoform	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Bromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
2-Butanone	ND		ug/kg	26.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Chlorodibromomethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
trans-1,2-Dichloroethene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,2-Dichloropropane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,3-Dichloropropene, Total	ND		ug/kg	10.5	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Ethylbenzene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Methylene Chloride	ND	1	ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,1,2,2-Tetrachloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Toluene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
1,1,2-Trichloroethane	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Trichloroethene	ND		ug/kg	5.2	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
<i>Surrogate Recoveries</i>									
1,2-Dichloroethane-d4 (S)	104		%	56 - 124	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
4-Bromofluorobenzene (S)	110		%	51 - 128	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025007** Date Collected: 6/10/2015 10:00 Matrix: Solid  
Sample ID: **Low Volume C Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Toluene-d8 (S)	104		%	59 - 131	SW846 8260B	6/10/15 JPA	6/11/15 14:16	JPA	A
<b>WET CHEMISTRY</b>									
Moisture	70.9		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Total Solids	29.1		%	0.1	S2540G-11		6/11/15 09:19	JP	A

Ms. Shannon Butler  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid  
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>SEMICOLATIVES</b>								
Acenaphthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Anthracene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzidine	ND		ug/kg	2350	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(a)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(a)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(b)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Benzo(k)fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Butylbenzylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2-Chloronaphthalene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2-Chlorophenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Chrysene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Di-n-Butylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
1,2-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
1,3-Dichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	440	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2,4-Dichlorophenol	ND		ug/kg	587	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Diethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2,4-Dimethylphenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Dimethylphthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2,4-Dinitrophenol	ND		ug/kg	587	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Fluoranthene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Fluorene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Isophorone	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Kepone	ND		ug/kg	2940	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Naphthalene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
N-Nitrosodimethylamine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A
Phenol	ND		ug/kg	793	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025008</b>	Date Collected:	6/10/2015 10:05	Matrix:	Solid
Sample ID:	<b>Low Volume C Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	294	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	82.1		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2,4,6-Tribromophenol (S)	79.2		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
2-Fluorobiphenyl (S)	69.5		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorobiphenyl (S)	71.1		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
2-Fluorophenol (S)	71.6		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
2-Fluorophenol (S)	71.7		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	73.5		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Nitrobenzene-d5 (S)	75.7		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
Phenol-d5 (S)	72		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Phenol-d5 (S)	69.1		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Terphenyl-d14 (S)	67.3		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
Terphenyl-d14 (S)	72.2		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 16:49	CGS	A
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1016	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1221	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1232	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1242	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1248	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1254	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Aroclor-1260	ND		mg/kg	0.099	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid  
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	101		%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
Tetrachloro-m-xylene (S)	104		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:34	EGO	
<b>PESTICIDES</b>									
Aldrin	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
alpha-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
beta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
delta-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
gamma-BHC	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
alpha-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
gamma-Chlordane	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
4,4'-DDD	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
4,4'-DDE	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
4,4'-DDT	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Dieldrin	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endosulfan I	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endosulfan II	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endosulfan Sulfate	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endrin	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endrin Aldehyde	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Endrin Ketone	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Heptachlor	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Heptachlor Epoxide	ND		ug/kg	25.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Methoxychlor	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Mirex	ND		ug/kg	49.4	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Toxaphene	ND		ug/kg	195	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	63.4		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
Tetrachloro-m-xylene (S)	44.4		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:42	RWS	A
<b>ORGANOPHOSPHORUS COMPOUNDS</b>									
Acetochlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Alachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Atrazine	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Azinphos Methyl	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Bolstar	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Bromacil	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025008</b>	Date Collected:	6/10/2015 10:05	Matrix:	Solid
Sample ID:	<b>Low Volume C Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Chlorpyrifos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Coumaphos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Cyanizine	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Demeton	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Diazinon	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Dichlorovos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Dimethoate	ND		ug/kg	137	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
EPN	ND		ug/kg	182	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Ethoprop	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Fensulfothion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Fenthion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Malathion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Methyl Parathion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Metolachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Metribuzin	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Mevinphos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Molinate	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Parathion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Phorate	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Prometon	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Propachlor	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Ronnel	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Simazine	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
Sulfotep	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Tetrachlorinphos	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Tokuthion	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Trichloronate	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
Trifluralin	ND		ug/kg	106	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	71.2		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 21:18	EGO	A
<i>Surrogate Recoveries</i>	Results	Flag	Units	Limits	Method	Prepared By	Analyzed	By	Cntr
IS_Triphenylphosphate (S)	79.6		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025008</b>	Date Collected:	6/10/2015 10:05	Matrix:	Solid
Sample ID:	<b>Low Volume C Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>Surrogate Recoveries</b>									
IS_Triphenylphosphate (S)	111		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 05:43	KJH	A
<b>WET CHEMISTRY</b>									
Cyanide, Total	ND		mg/kg	0.73	SW846 9012B	6/12/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	5770		mg/kg	605	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	5.9	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	67.3		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	2990		mg/kg	605	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	32.7		%	0.1	S2540G-11		6/11/15 09:19	JP	A
<b>METALS</b>									
Trivalent Chromium	35.6		mg/kg	6.1	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	2.6	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Arsenic, Total	25.0		mg/kg	3.9	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Chromium, Total	35.6		mg/kg	2.6	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Copper, Total	272		mg/kg	6.5	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Nickel, Total	71.6		mg/kg	6.5	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Thallium, Total	ND		mg/kg	1.3	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
Zinc, Total	296		mg/kg	6.5	SW846 6020A	6/14/15 JPS	6/15/15 06:32	ZMC	A1
<b>TCLP METALS</b>									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:58	MNP	A3
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/16/15 JPS	6/17/15 11:35	SRT	A2
<b>TCLP SEMI-VOLATILES</b>									
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid  
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared By</b>	<b>Analyzed By</b>	<b>By</b>	<b>Cntr</b>
2,4,6-Tribromophenol (S)	70.7		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2-Fluorobiphenyl (S)	69.3		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
2-Fluorophenol (S)	47.5		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Nitrobenzene-d5 (S)	73.9		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Phenol-d5 (S)	29.4		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
Terphenyl-d14 (S)	82.9		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 14:57	GEC	A
<b>TCLP PESTICIDES</b>									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared By</b>	<b>Analyzed By</b>	<b>By</b>	<b>Cntr</b>
Decachlorobiphenyls (S)	75.8		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
Tetrachloro-m-xylene (S)	69.1		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 16:16	RWS	A
<b>TCLP HERBICIDES</b>									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 22:07	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 22:07	KJH	A
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared By</b>	<b>Analyzed By</b>	<b>By</b>	<b>Cntr</b>
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 22:07	KJH	A

### SUBCONTRACTED ANALYSIS

Subcontracted Analysis	See attached	Subcontract	6/16/15 00:00	SUB	E
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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025008** Date Collected: 6/10/2015 10:05 Matrix: Solid  
Sample ID: **Low Volume C Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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Ms. Shannon Butler  
Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid  
Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>TCLP VOLATILE ORGANICS</b>								
Benzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
2-Butanone	ND		ug/L	200	SW846 8260B		6/18/15 08:08	JPA D
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
Chlorobenzene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
Chloroform	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
1,2-Dichloroethane	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
Trichloroethene	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B		6/18/15 08:08	JPA D
<b>Surrogate Recoveries</b>								
1,2-Dichloroethane-d4 (S)	95		%	62 - 133	SW846 8260B		6/18/15 08:08	JPA D
4-Bromofluorobenzene (S)	82.6		%	79 - 114	SW846 8260B		6/18/15 08:08	JPA D
Dibromofluoromethane (S)	94.7		%	78 - 116	SW846 8260B		6/18/15 08:08	JPA D
Toluene-d8 (S)	94		%	76 - 127	SW846 8260B		6/18/15 08:08	JPA D
<b>VOLATILE ORGANICS</b>								
Acrolein	ND		ug/kg	201	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Acrylonitrile	ND		ug/kg	40.2	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Bromodichloromethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Bromoform	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Bromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
2-Butanone	ND		ug/kg	40.2	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Chlorodibromomethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
trans-1,2-Dichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
1,2-Dichloropropane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
1,3-Dichloropropene, Total	ND		ug/kg	16.1	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Ethylbenzene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Methylene Chloride	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
1,1,2,2-Tetrachloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Toluene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
1,1,2-Trichloroethane	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Trichloroethene	ND		ug/kg	8.0	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
<b>Surrogate Recoveries</b>								
1,2-Dichloroethane-d4 (S)	109		%	56 - 124	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
4-Bromofluorobenzene (S)	120		%	51 - 128	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A
Dibromofluoromethane (S)	116		%	62 - 123	SW846 8260B	6/10/15 JPA	6/11/15 14:39	JPA A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025009** Date Collected: 6/10/2015 10:10 Matrix: Solid  
Sample ID: **Low Volume D Grab** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
Toluene-d8 (S)	97.2		%	59 - 131	SW846 8260B	6/10/15 JPA	6/11/15 14:39 JPA	A
<b>WET CHEMISTRY</b>								
Moisture	79.2		%	0.1	S2540G-11		6/11/15 09:19 JP	A
Total Solids	20.8		%	0.1	S2540G-11		6/11/15 09:19 JP	A

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Project Coordinator

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025010</b>	Date Collected:	6/10/2015 10:15	Matrix:	Solid
Sample ID:	<b>Low Volume D Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
<b>SEMIVOLATILES</b>								
Acenaphthene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Anthracene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzidine	ND		ug/kg	3850	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(a)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(a)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(b)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Benzo(k)fluoranthene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Butylbenzylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
bis(2-Chloroethyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
bis(2-Chloroisopropyl)ether	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2-Chloronaphthalene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2-Chlorophenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Chrysene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Di-n-Butylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Dibenzo(a,h)anthracene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
1,2-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
1,3-Dichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
3,3-Dichlorobenzidine	ND		ug/kg	721	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2,4-Dichlorophenol	ND		ug/kg	962	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Diethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2,4-Dimethylphenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Dimethylphthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2,4-Dinitrophenol	ND		ug/kg	962	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
1,2-Diphenylhydrazine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
bis(2-Ethylhexyl)phthalate	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Fluoranthene	768		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Fluorene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Hexachlorocyclopentadiene	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Indeno(1,2,3-cd)pyrene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Isophorone	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Kepone	ND		ug/kg	4810	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
2-Methyl-4,6-dinitrophenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Naphthalene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
N-Nitrosodimethylamine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
N-Nitroso-di-n-propylamine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
N-Nitrosodiphenylamine	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A
Phenol	ND		ug/kg	1300	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid  
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pyrene	670		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
1,2,4-Trichlorobenzene	ND		ug/kg	481	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	90.9		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2,4,6-Tribromophenol (S)	94.2		%	37 - 123	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
2-Fluorobiphenyl (S)	78.5		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorobiphenyl (S)	76.7		%	45 - 105	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
2-Fluorophenol (S)	74		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
2-Fluorophenol (S)	73.5		%	35 - 104	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
Nitrobenzene-d5 (S)	75.5		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Nitrobenzene-d5 (S)	77.8		%	41 - 110	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Phenol-d5 (S)	71.6		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Phenol-d5 (S)	74.2		%	40 - 100	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Terphenyl-d14 (S)	90.6		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<i>Surrogate Recoveries</i>									
Terphenyl-d14 (S)	84.5		%	38 - 113	SW846 8270D	6/11/15 BS	6/11/15 17:13	CGS	A
<b>PCBs</b>									
Total Polychlorinated Biphenyl	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1016	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1221	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1232	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1242	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1248	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1254	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Aroclor-1260	ND		mg/kg	0.16	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	

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State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid  
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	108		%	46 - 120	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
Tetrachloro-m-xylene (S)	107		%	52 - 115	SW846 8082A	6/11/15 KAC	7/8/15 15:45	EGO	
<b>PESTICIDES</b>									
Aldrin	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
alpha-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
beta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
delta-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
gamma-BHC	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
alpha-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
gamma-Chlordane	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
4,4'-DDD	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
4,4'-DDE	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
4,4'-DDT	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Dieldrin	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endosulfan I	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endosulfan II	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endosulfan Sulfate	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endrin	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endrin Aldehyde	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Endrin Ketone	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Heptachlor	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Heptachlor Epoxide	ND		ug/kg	41.9	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Methoxychlor	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Mirex	ND		ug/kg	81.4	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Toxaphene	ND		ug/kg	321	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
<b>Surrogate Recoveries</b>									
Decachlorobiphenyls (S)	61.2		%	30 - 135	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
Tetrachloro-m-xylene (S)	46.8		%	30 - 111	SW846 8081B	6/11/15 KAC	6/13/15 19:57	RWS	A
<b>ORGANOPHOSPHORUS COMPOUNDS</b>									
Acetochlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Alachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Atrazine	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Azinphos Methyl	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Bolstar	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Bromacil	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID:	<b>2076025010</b>	Date Collected:	6/10/2015 10:15	Matrix:	Solid
Sample ID:	<b>Low Volume D Comp</b>	Date Received:	6/10/2015 19:50		

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Butachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Chlorpyrifos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Coumaphos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Cyanizine	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Demeton	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Diazinon	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Dichlorovos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
O,O-Diethyl O-pyrazinylphosphor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Dimethoate	ND		ug/kg	221	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
EPN	ND		ug/kg	294	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Ethoprop	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Fensulfothion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Fenthion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Malathion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Methyl Parathion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Metolachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Metribuzin	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Mevinphos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Molinate	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Parathion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Pendimethalin(Prowl)	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Phorate	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Prometon	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Propachlor	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Ronnel	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Simazine	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
Sulfotep	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Tetrachlorinphos	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Tokuthion	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Trichloronate	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
Trifluralin	ND		ug/kg	172	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	77.1		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A
<i>Surrogate Recoveries</i>	<i>Results</i>	<i>Flag</i>	<i>Units</i>	<i>Limits</i>	<i>Method</i>	<i>Prepared By</i>	<i>Analyzed</i>	<i>By</i>	<i>Cntr</i>
IS_Triphenylphosphate (S)	83.6		%	16 - 169	SW846 8141B	6/12/15 KAC	6/15/15 06:20	KJH	A

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid  
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	By	Cntr
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared By	Analyzed By	By	Cntr
IS_Triphenylphosphate (S)	60.4		%	16 - 169	SW846 8141B	6/12/15 KAC	6/13/15 21:49	EGO	A
<b>WET CHEMISTRY</b>									
Cyanide, Total	ND		mg/kg	1.3	SW846 9012B	6/13/15 SYB	6/13/15 19:44	LJF	A
Hexane Extractable Material	6620		mg/kg	980	SW846 9071B		6/21/15 12:30	AT	A
Hexavalent Chromium	ND		mg/kg	9.8	SW846 7196A	6/15/15 THB	6/15/15 18:00	THB	A
Moisture	80.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
Silica Gel Treated HEM	3380		mg/kg	980	SW846 9071B		6/21/15 12:30	AT	A
Total Solids	20.0		%	0.1	S2540G-11		6/11/15 09:19	JP	A
<b>METALS</b>									
Trivalent Chromium	80.5		mg/kg	10.0	Calculation		6/25/15 16:23	JWB	A
Antimony, Total	ND		mg/kg	4.7	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Arsenic, Total	19.2		mg/kg	7.1	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Chromium, Total	80.5		mg/kg	4.7	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Copper, Total	417		mg/kg	11.8	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Nickel, Total	69.7		mg/kg	11.8	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Thallium, Total	ND		mg/kg	2.4	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
Zinc, Total	440		mg/kg	11.8	SW846 6020A	6/14/15 JPS	6/15/15 06:35	ZMC	A1
<b>TCLP METALS</b>									
Arsenic, Total	ND		mg/L	0.14	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Barium, Total	ND		mg/L	2.8	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Cadmium, Total	ND		mg/L	0.011	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Chromium, Total	ND		mg/L	0.028	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Lead, Total	ND		mg/L	0.033	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	6/17/15 MNP	6/17/15 12:59	MNP	A2
Selenium, Total	ND		mg/L	0.11	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
Silver, Total	ND		mg/L	0.022	SW846 6010C	6/18/15 JPS	6/18/15 12:25	SRT	A3
<b>TCLP SEMI-VOLATILES</b>									
mp-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
o-Cresol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Hexachlorobutadiene	ND	2	ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Hexachloroethane	ND	1	ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A

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NELAP Certifications: NJ PA010, NY 11759, PA 22-293 DoD ELAP: A2LA 0818.01  
State Certifications: DE ID 11, MA PA0102, MD 128, VA 460157, WV 343

## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid  
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed	By	Cntr
Pentachlorophenol	ND		ug/L	320	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Pyridine	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>By</b>	<b>Cntr</b>
2,4,6-Tribromophenol (S)	66.7		%	40 - 125	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2-Fluorobiphenyl (S)	67.1		%	50 - 110	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
2-Fluorophenol (S)	45.4		%	20 - 75	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Nitrobenzene-d5 (S)	69.8		%	40 - 110	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Phenol-d5 (S)	27.6		%	13 - 49	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
Terphenyl-d14 (S)	79		%	50 - 122	SW846 8270D	6/19/15 PDK	6/20/15 15:21	GEC	A
<b>TCLP PESTICIDES</b>									
gamma-BHC	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Chlordane	ND		ug/L	10.0	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Endrin	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Heptachlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Heptachlor Epoxide	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Methoxychlor	ND		ug/L	0.50	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Toxaphene	ND		ug/L	20.0	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>By</b>	<b>Cntr</b>
Decachlorobiphenyls (S)	62.1		%	30 - 140	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
Tetrachloro-m-xylene (S)	73.9		%	30 - 123	SW846 8081B	6/16/15 CAC	6/17/15 16:32	RWS	A
<b>TCLP HERBICIDES</b>									
2,4-D	ND		ug/L	4.0	SW846 8151A	6/17/15 PDK	6/18/15 22:44	KJH	A
2,4,5-TP	ND		ug/L	6.0	SW846 8151A	6/17/15 PDK	6/18/15 22:44	KJH	A
<b>Surrogate Recoveries</b>	<b>Results</b>	<b>Flag</b>	<b>Units</b>	<b>Limits</b>	<b>Method</b>	<b>Prepared</b>	<b>Analyzed</b>	<b>By</b>	<b>Cntr</b>
2,4-Dichlorophenylacetic acid (S)	113		%	14 - 172	SW846 8151A	6/17/15 PDK	6/18/15 22:44	KJH	A

### SUBCONTRACTED ANALYSIS

Subcontracted Analysis See attached Subcontract 6/16/15 00:00 SUB E

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## ANALYTICAL RESULTS

Workorder: 2076025 Dominion Possum Point

Lab ID: **2076025010** Date Collected: 6/10/2015 10:15 Matrix: Solid  
Sample ID: **Low Volume D Comp** Date Received: 6/10/2015 19:50

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
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A handwritten signature in black ink that reads "Shannon Butler".

Ms. Shannon Butler  
Project Coordinator

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#### PARAMETER QUALIFIERS

Lab ID	#	Sample ID	Analytical Method	Analyte
2076025002	1	ABC 2 Comp	SW846 8082A	Decachlorobiphenyls
				The surrogate Decachlorobiphenyls for method SW846 8082A was outside of control limits. The % Recovery was reported as 187 and the control limits were 46 to 120. This result was reported at a dilution of 1.
2076025005	6	ABC 4 Grab	SW846 8260B	Dibromofluoromethane
				The surrogate Dibromofluoromethane for method SW846 8260B was outside of control limits. The % Recovery was reported as 201 and the control limits were 62 to 123. This result was reported at a dilution of 1.
2076025005	7	ABC 4 Grab	SW846 8260B	1,2-Dichloroethane-d4
				The surrogate 1,2-Dichloroethane-d4 for method SW846 8260B was outside of control limits. The % Recovery was reported as 182 and the control limits were 56 to 124. This result was reported at a dilution of 1.
2076025005	8	ABC 4 Grab	SW846 8260B	Toluene-d8
				The surrogate Toluene-d8 for method SW846 8260B was outside of control limits. The % Recovery was reported as 202 and the control limits were 59 to 131. This result was reported at a dilution of 1.
2076025007	9	ABC 4 Grab	SW846 8260B	4-Bromofluorobenzene
				The surrogate 4-Bromofluorobenzene for method SW846 8260B was outside of control limits. The % Recovery was reported as 138 and the control limits were 51 to 128. This result was reported at a dilution of 1.
2076025007	1	Low Volume C Grab	SW846 8260B	Methylene Chloride
				The QC sample type LCSD for method SW846 8260B was outside the control limits for the analyte Methylene Chloride. The % Recovery was reported as 139 and the control limits were 68 to 133.
2076025010	1	Low Volume D Comp	SW846 8270D	Hexachloroethane
				The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachloroethane. The RPD was reported as 30.1 and the upper control limit is 30.
2076025010	2	Low Volume D Comp	SW846 8270D	Hexachlorobutadiene
				The QC sample type MSD for method SW846 8270D was outside the control limits for the analyte Hexachlorobutadiene. The RPD was reported as 31.9 and the upper control limit is 30.

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34 Dogwood Lane  
Middletown, PA 17057  
P. 717-944-5541  
F. 717-944-1430

## CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

**ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER (INSTRUCTIONS ON THE BACK)**

Co. Name: **GATE CONSULTANTS, INC.** Phone: **412 - 476 - 2000**  
Contact (name): **E. SCOTT, Jr.** Address: **3005 E. WATERFRONT DRIVE  
HOMEWOOD, PA 15120**

Bill to (if different than Report to):

**Possum Activit**

Project Name#: **C150130 .00**

ALS Quote#:

Date Required:

TAT:

Normal Standard TAT is 10-12 business days.

Rush Subject to ALS approval and surcharges (**WATERFRONT ONLY**)

Approved by:

**E. SCOTT, Jr. GATECONSULTANTS.COM**

Email?

Fax?

Y. No.:

Sample Description/Location

COG Comments

Sample Date

Military Time

Time

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# CHAIN OF CUSTODY / REQUEST FOR ANALYSIS

Environmental • Industrial/Hygiene • Field Services

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COC #:		1 of 1	
ALSI Quote #:		Receipt Information (completed by Receiving Lab)	
		Cooler Temp:	Therm. ID:
		No. of Coolers:	Y    N    Initial
		Custody Seals Present? (if present) Seals Intact? Received on Ice? COC/Lab Labels Complete/Accurate? Cont. in Good Cond.? Correct Containers? Correct Sample Volumes? Correct Presentation? Headspace/Volatilities? Container Tracking #: _____	
Client Name: ALS Environmental		ANALYSES/METHOD REQUESTED	
Address: 34 Dogwood Lane Middletown, PA 17057		Trisodium Phosphate	
Contact: Vicki Forney	Preservative:	Matrix	
Phone#: (717) 944-5541		Sample Description/Location (as it will appear on the lab report)	
Project Name#: TAT	Rush/Subject to ALSI approval and surcharges.	Date Required:	Approved By: Email? X -Y almdt.subcontract@ALSGlobal.com Fax? Y No.: _____
Bill To: ALS Environmental		Sample Date	Sample Date
		Time	Time
Enter Number of Containers Per Sample or Field Results Below.			
2076025 002	6/9/15	1115 G SO	1
2076025 004	6/9/15	0915 G SO	1
2076025 006	6/9/15	1300 G SO	1
2076025 008	6/9/15	1005 G SO	1
2076025 010	6/9/15	1015 G SO	1
LOGGED BY(signature):			
REVIEWED BY(signature):			
Relinquished By / Company Name	Date	Time	Received By / Company Name
1	6/10/15	12:45	2
3			4
5			6
7			8
9			10
Reportable to PADEP?		Sample Disposal	
Yes <input type="checkbox"/> PWSID# _____		Lab <input type="checkbox"/> Special <input type="checkbox"/>	
EDDs: Format Type-		PA <input type="checkbox"/> NC <input type="checkbox"/> Other <input type="checkbox"/>	
State Samples Collected In		State Samples Collected In	
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D&E Deliverables		Standard <input type="checkbox"/> CLP-like <input type="checkbox"/>	



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July 05, 2015

Analytical Report for Service Request No: K1506480

Vicki Forney  
ALS Environmental  
34 Dogwood Lane  
Middletown, PA 17057

**RE: 2076025**

Dear Vicki,

Enclosed are the results of the sample(s) submitted to our laboratory June 16, 2015  
For your reference, these analyses have been assigned our service request number **K1506480**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at [www.alsglobal.com](http://www.alsglobal.com). All results are intended to be considered in their entirety, and ALS Group USA Corp. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please contact me if you have any questions. My extension is 3364. You may also contact me via email at [howard.holmes@alsglobal.com](mailto:howard.holmes@alsglobal.com).

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Howard Holmes  
Project Manager



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## Table of Contents

- Acronyms
- Qualifiers
- State Certifications, Accreditations, And Licenses
- Chain of Custody
- General Chemistry
- Butyltins (as cation)

## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

### Inorganic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.*
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

### Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.*
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Organic Data Qualifiers

- \* The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.  
*DOD-QSM 4.2 definition : Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.*
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

### Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

**ALS Group USA Corp. dba ALS Environmental (ALS) - Kelso**  
**State Certifications, Accreditations, and Licenses**

Agency	Web Site	Number
Alaska DEC UST	<a href="http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx">http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx</a>	UST-040
Arizona DHS	<a href="http://www.azdhs.gov/lab/license/env.htm">http://www.azdhs.gov/lab/license/env.htm</a>	AZ0339
Arkansas - DEQ	<a href="http://www.adeq.state.ar.us/techsvs/labcert.htm">http://www.adeq.state.ar.us/techsvs/labcert.htm</a>	88-0637
California DHS (ELAP)	<a href="http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx">http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx</a>	2795
DOD ELAP	<a href="http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm">http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm</a>	L14-51
Florida DOH	<a href="http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm">http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm</a>	E87412
Hawaii DOH	Not available	-
Idaho DHW	<a href="http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx">http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx</a>	-
ISO 17025	<a href="http://www.pjlabs.com/">http://www.pjlabs.com/</a>	L14-50
Louisiana DEQ	<a href="http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx">http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx</a>	03016
Maine DHS	Not available	WA01276
Michigan DEQ	<a href="http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html">http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html</a>	9949
Minnesota DOH	<a href="http://www.health.state.mn.us/accreditation">http://www.health.state.mn.us/accreditation</a>	053-999-457
Montana DPHHS	<a href="http://www.dphhs.mt.gov/publichealth/">http://www.dphhs.mt.gov/publichealth/</a>	CERT0047
Nevada DEP	<a href="http://ndep.nv.gov/bsdw/labservice.htm">http://ndep.nv.gov/bsdw/labservice.htm</a>	WA01276
New Jersey DEP	<a href="http://www.nj.gov/dep/oqa/">http://www.nj.gov/dep/oqa/</a>	WA005
North Carolina DWQ	<a href="http://www.dwqlab.org/">http://www.dwqlab.org/</a>	605
Oklahoma DEQ	<a href="http://www.deq.state.ok.us/CSDnew/labcert.htm">http://www.deq.state.ok.us/CSDnew/labcert.htm</a>	9801
Oregon – DEQ (NELAP)	<a href="http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx">http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx</a>	WA100010
South Carolina DHEC	<a href="http://www.scdhec.gov/environment/envserv/">http://www.scdhec.gov/environment/envserv/</a>	61002
Texas CEQ	<a href="http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html">http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html</a>	T104704427
Washington DOE	<a href="http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html">http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html</a>	C544
Wisconsin DNR	<a href="http://dnr.wi.gov/">http://dnr.wi.gov/</a>	998386840
Wyoming (EPA Region 8)	<a href="http://www.epa.gov/region8/water/dwhome/wyomingdi.html">http://www.epa.gov/region8/water/dwhome/wyomingdi.html</a>	-
Kelso Laboratory Website	<a href="http://www.alsglobal.com">www.alsglobal.com</a>	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at [www.alsGlobal.com](http://www.alsGlobal.com) or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.



## Chain of Custody

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577- 7222 Fax (360)636- 1068  
[www.alsglobal.com](http://www.alsglobal.com)

Q.L.F. - S.L. - P.L.A.S.E. - H.C.H. - P.D.H. - F.G.R.

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PC 44

## Cooler Receipt and Preservation Form

Client / Project: ALS Middletown Service Request K15 6480Received: 6/10/15 Opened: 6/10/15 By: UK Unloaded: 6/10/15 By: UK

1. Samples were received via?  Mail  Fed Ex  UPS  DHL  PDX  Courier  Hand Delivered
2. Samples were received in: (circle)  Cooler  Box  Envelope  Other \_\_\_\_\_ NA
3. Were custody seals on coolers? NA Y  N If yes, how many and where? \_\_\_\_\_
- If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Sample ID	Sample ID on Bottle	Sample ID on COC	Corr Factor	Thermometer ID	Cooler/COC ID	Tracking Number	Entered
-0.4	-0.4	2.1	2.1	0	353	7738 3605 4133	

4. Packing material:  Inserts  Baggies  Bubble Wrap  Gel Packs  Wet Ice  Dry Ice  Sleeves \_\_\_\_\_
5. Were custody papers properly filled out (ink, signed, etc.)? NA  Y N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA  Y N
7. Were all sample labels complete (i.e analysis, preservation, etc.)? NA  Y N
8. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA  Y N
9. Were appropriate bottles/containers and volumes received for the tests indicated? NA  Y N
10. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? *Indicate in the table below.* NA  Y N
11. Were VOA vials received without headspace? *Indicate in the table below.* NA  Y N
12. Was C12/Res negative? NA  Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Out of Headspace	Temp	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions:

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**ALS** Environmental

## General Chemistry

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577- 7222 Fax (360)636- 1068  
[www.alsglobal.com](http://www.alsglobal.com)

**ALS Group USA, Corp.**  
dba ALS Environmental

Analytical Report

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Soil  
**Analysis Method:** 160.3 Modified  
**Prep Method:** None

**Service Request:** K1506480  
**Date Collected:** 06/9/15  
**Date Received:** 06/16/15  
**Units:** Percent  
**Basis:** NA

**Solids, Total**

Sample Name	Lab Code	Result	MRL	Dil.	Date Analyzed	Q
2076025 002	K1506480-001	63.5	-	1	06/17/15 15:55	
2076025 004	K1506480-002	60.7	-	1	06/17/15 15:55	
2076025 006	K1506480-003	63.0	-	1	06/17/15 15:55	
2076025 008	K1506480-004	34.4	-	1	06/17/15 15:55	
2076025 010	K1506480-005	19.6	-	1	06/17/15 15:55	

**ALS Group USA, Corp.**  
dba ALS Environmental

QA/QC Report

**Client:** ALS Environmental - US      **Service Request:**K1506480  
**Project:** 2076025      **Date Collected:**NA  
**Sample Matrix:** Soil      **Date Received:**NA  
  
**Analysis Method:** 160.3 Modified      **Units:**Percent  
**Prep Method:** None      **Basis:**NA

**Replicate Sample Summary**  
**Solids, Total**

Sample Name:	Lab Code:	MRL	Sample Result	Duplicate Result	Average	RPD	RPD Limit	Date Analyzed
Batch QC	K1505572-050DUP	-	60.6	60.7	60.7	<1	20	06/17/15
Batch QC	K1506492-001DUP	-	88.9	89.3	89.1	<1	20	06/17/15

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Superset Reference: IS-0000336049 rev 00



**ALS Environmental**

## **Butyltins (as cation)**

**ALS Environmental—Kelso Laboratory**  
1317 South 13th Avenue, Kelso, WA 98626  
Phone (360)577-7222 Fax (360)636-1068  
[www.alsglobal.com](http://www.alsglobal.com)

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## ALS Group USA, Corp. dba ALS Environmental

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Soil

**Service Request:** K1506480  
**Date Collected:** 06/09/2015  
**Date Received:** 06/16/2015

## Analytical Results

## Butyltins (as cation)

**Sample Name:** 2076025 002      **Units:** ug/Kg  
**Lab Code:** K1506480-001      **Basis:** Dry

**Extraction Method:** METHOD      **Level:** Low  
**Analysis Method:** Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	67	10-120	06/24/15	Acceptable

Comments: \_\_\_\_\_

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## ALS Group USA, Corp. dba ALS Environmental

Client: ALS Environmental - US  
 Project: 2076025  
 Sample Matrix: Soil

Service Request: K1506480  
 Date Collected: 06/09/2015  
 Date Received: 06/16/2015

## Analytical Results

## Butyltins (as cation)

Sample Name: 2076025 004 Units: ug/Kg  
 Lab Code: K1506480-002 Basis: Dry

Extraction Method: METHOD Level: Low  
 Analysis Method: Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	1.7	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	76	10-120	06/24/15	Acceptable

Comments: \_\_\_\_\_

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## ALS Group USA, Corp. dba ALS Environmental

## Analytical Results

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Soil

**Service Request:** K1506480  
**Date Collected:** 06/09/2015  
**Date Received:** 06/16/2015

## Butyltins (as cation)

**Sample Name:** 2076025 006      **Units:** ug/Kg  
**Lab Code:** K1506480-003      **Basis:** Dry

**Extraction Method:** METHOD      **Level:** Low  
**Analysis Method:** Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	1.6	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	63	10-120	06/24/15	Acceptable

Comments: \_\_\_\_\_

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## ALS Group USA, Corp. dba ALS Environmental

## Analytical Results

Client: ALS Environmental - US  
 Project: 2076025  
 Sample Matrix: Soil

Service Request: K1506480  
 Date Collected: 06/09/2015  
 Date Received: 06/16/2015

## Butyltins (as cation)

Sample Name: 2076025 008 Units: ug/Kg  
 Lab Code: K1506480-004 Basis: Dry  
 Extraction Method: METHOD Level: Low  
 Analysis Method: Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	2.9	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	88	10-120	06/24/15	Acceptable

Comments: \_\_\_\_\_  
 \_\_\_\_\_

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## ALS Group USA, Corp. dba ALS Environmental

## Analytical Results

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Soil

**Service Request:** K1506480  
**Date Collected:** 06/09/2015  
**Date Received:** 06/16/2015

## Butyltins (as cation)

**Sample Name:** 2076025 010      **Units:** ug/Kg  
**Lab Code:** K1506480-005      **Basis:** Dry  
**Extraction Method:** METHOD      **Level:** Low  
**Analysis Method:** Krone

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND	U	5.2	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	80	10-120	06/24/15	Acceptable

Comments: \_\_\_\_\_

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## ALS Group USA, Corp. dba ALS Environmental

## Analytical Results

Client: ALS Environmental - US  
 Project: 2076025  
 Sample Matrix: Sediment

Service Request: K1506480  
 Date Collected: NA  
 Date Received: NA

## Butyltins (as cation)

Sample Name: Method Blank Units: ug/Kg  
 Lab Code: KWG1505433-5 Basis: Dry  
 Extraction Method: METHOD Level: Low  
 Analysis Method: Krone

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Tri-n-butyltin Cation	ND U	0.98	1	06/18/15	06/24/15	KWG1505433	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Tri-n-propyltin	56	10-120	06/24/15	Acceptable

Comments: \_\_\_\_\_

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ALS Group USA, Corp. dba ALS Environmental

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Sediment

## QA/QC Report

Service Request: K1506480

## Surrogate Recovery Summary Butyltins (as cation)

**Extraction Method:** METHOD      **Analysis Method:** Krone      **Units:** Percent      **Level:** Low

<u>Sample Name</u>	<u>Lab Code</u>	<u>Surf</u>
Batch QC	K1506354-001	75
2076025 002	K1506480-001	67
2076025 004	K1506480-002	76
2076025 006	K1506480-003	63
2076025 008	K1506480-004	88
2076025 010	K1506480-005	80
Batch QCDUP	KWG1505433-1	73
Method Blank	KWG1505433-5	56
Batch QCMS	KWG1505433-2	77
Batch QCDMS	KWG1505433-3	70
Lab Control Sample	KWG1505433-4	76

### Surrogate Recovery Control Limits (%)

Surf = Tri-n-propyltin 10-120

**Results flagged with an asterisk (\*) indicate values outside control criteria.**  
**Results flagged with a pound (#) indicate the control criteria is not applicable.**

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**Form 2A - Organic**

### **SuperSet Reference:**

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## ALS Group USA, Corp. dba ALS Environmental

## QA/QC Report

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Sediment

**Service Request:** K1506480  
**Date Extracted:** 06/18/2015  
**Date Analyzed:** 06/24/2015

**Matrix Spike/Duplicate Matrix Spike Summary**  
**Butyltins (as cation)**

<b>Sample Name:</b>	Batch QC	<b>Units:</b>	ug/Kg
<b>Lab Code:</b>	K1506354-001	<b>Basis:</b>	Dry
<b>Extraction Method:</b>	METHOD	<b>Level:</b>	Low
<b>Analysis Method:</b>	Krone	<b>Extraction Lot:</b>	KWG1505433

Analyte Name	Sample Result	Batch QCMS			Batch QCDMS			%Rec Limits	RPD	RPD Limit
		Result	Spike Amount	%Rec	Result	Spike Amount	%Rec			
Tri-n-butyltin Cation	ND	20.8	30.9	67	21.7	30.9	70	10-115	4	40

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3A - Organic

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## ALS Group USA, Corp. dba ALS Environmental

## QA/QC Report

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Sediment

**Service Request:** K1506480  
**Date Extracted:** 06/18/2015  
**Date Analyzed:** 06/24/2015

**Duplicate Sample Summary**  
**Butyltins (as cation)**

<b>Sample Name:</b>	Batch QC	<b>Units:</b>	ug/Kg
<b>Lab Code:</b>	K1506354-001	<b>Basis:</b>	Dry
<b>Extraction Method:</b>	METHOD	<b>Level:</b>	Low
<b>Analysis Method:</b>	Krone	<b>Extraction Lot:</b>	KWG1505433

Analyte Name	MRL	Sample Result	Batch QCDUP		Relative Percent Difference	RPD Limit
			Duplicate Sample Result	Average		
Tri-n-butyltin Cation	1.4	ND	ND	ND	-	40

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Form 3B - Organic

SuperSet Reference:

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ALS Group USA, Corp. dba ALS Environmental

## QA/QC Report

**Client:** ALS Environmental - US  
**Project:** 2076025  
**Sample Matrix:** Sediment

**Service Request:** K1506480  
**Date Extracted:** 06/18/2015  
**Date Analyzed:** 06/24/2015

## Lab Control Spike Summary Butyltins (as cation)

**Extraction Method:** METHOD  
**Analysis Method:** Krone

Units: ug/Kg

Basis: Dry

Level: Low

Extraction Lot: KWG1505433

Lab Control Sample

KWG1505433-4

**Lab Control Spike**

Analyte Name	Result	Spike Amount	%Rec	%Rec Limits
Tri-n-butyltin Cation	16.8	22.2	76	10-122

Results flagged with an asterisk (\*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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### Form 3C - Organic

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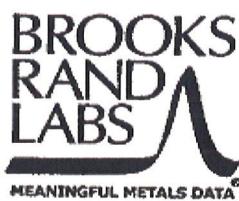
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Thursday, July 09, 2015 11:20:19 AM

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ALS

00014529



June 30, 2015

ALS - Middletown  
 ATTN: Vicki Forney  
 34 Dogwood Lane  
 Middletown PA 17057  
 vicki.forney@alsglobal.com

RE: Project ALS-MD1501

Client Project: 2076025

Dear Vicki Forney,

This report contains results for the 5 samples received by Brooks Rand Labs (BRL) on June 16, 2015. The samples were logged-in for the contracted analyses according to the chain-of-custody form(s). The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a concentration much less than the native sample and were not analyzed. A post-preparation spike (PS) was analyzed and recovered within acceptance criteria.

The results were method blank corrected as described in the calculations section of the relevant BRL SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. All additional data is reported without qualification and all other associated quality control sample results meet the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more details, please see the *Report Information* page in your report. Please feel free to contact me if you have any questions regarding this report.

Sincerely,

Lydia Greaves  
 Project Manager  
 Lydia@brooksrand.com

## Report Information

### Laboratory Accreditation

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <<http://www.brooksrand.com/about/accreditations-certifications/>>. Results reported relate only to the samples listed in the report.

### Field Quality Control Samples

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

### Common Abbreviations

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCB	continuing calibration blank	N/C	not calculated
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
D	dissolved fraction	RPD	relative percent difference
DUP	duplicate	RSD	relative standard deviation
IBL	instrument blank	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction

### Definition of Data Qualifiers

(Effective 9/23/09)

- B Detected by the instrument, the result is  $>$  the MDL but  $\leq$  the MRL. Result is reported and considered an estimate.  
E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.  
H Holding time and/or preservation requirements not met. Result is estimated.  
J Estimated value. A full explanation is presented in the narrative.  
J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.  
J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.  
M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.  
N Spike recovery was not within acceptance criteria. Result is estimated.  
R Rejected, unusable value. A full explanation is presented in the narrative.  
U Result is  $\leq$  the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.  
X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch.  
Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA SOW ILM03.0, Exhibit B, Section III, pg. B-18, and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.

## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
2076025 002	1525011-01	Soil	Sample	06/09/2015	06/16/2015
2076025 004	1525011-02	Soil	Sample	06/09/2015	06/16/2015
2076025 006	1525011-03	Soil	Sample	06/09/2015	06/16/2015
2076025 008	1525011-04	Soil	Sample	06/09/2015	06/16/2015
2076025 010	1525011-05	Soil	Sample	06/09/2015	06/16/2015

## Batch Summary

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
%TS	Soil/Sediment	SM 2540G	06/24/2015	06/28/2015	B150975	N/A
As(III)	Soil/Sediment	EPA 1632	06/24/2015	06/24/2015	B150974	1500505

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifier	MDL	MRL	Unit	Batch	Sequence
<b>2076025 002</b>										
1525011-01	%TS	Soil	NA	65.61		0.36	1.20	%	B150975	N/A
1525011-01	As(III)	Soil	dry	15.0		1.96	5.89	mg/kg	B150974	1500505
<b>2076025 004</b>										
1525011-02	%TS	Soil	NA	65.34		0.36	1.20	%	B150975	N/A
1525011-02	As(III)	Soil	dry	2.33		0.498	1.49	mg/kg	B150974	1500505
<b>2076025 006</b>										
1525011-03	%TS	Soil	NA	65.93		0.36	1.20	%	B150975	N/A
1525011-03	As(III)	Soil	dry	3.01		0.230	0.691	mg/kg	B150974	1500505
<b>2076025 008</b>										
1525011-04	%TS	Soil	NA	43.73		0.36	1.20	%	B150975	N/A
1525011-04	As(III)	Soil	dry	1.78		0.346	1.04	mg/kg	B150974	1500505
<b>2076025 010</b>										
1525011-05	%TS	Soil	NA	28.38		0.36	1.20	%	B150975	N/A
1525011-05	As(III)	Soil	dry	0.877		0.125	0.376	mg/kg	B150974	1500505

## Accuracy & Precision Summary

Batch: B150974

Lab Matrix: Soil/Sediment

Method: EPA 1632

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150974-BS1	Laboratory Fortified Blank (1523014) As(III)		1.204	1.171	mg/kg	97% 50-150	
B150974-BS2	Laboratory Fortified Blank (1523029) As(III)		1.204	1.128	mg/kg	94% 50-150	
B150974-SRM1	Certified Reference Material (1505010, PACS-3) As(III)		4.752	5.887	mg/kg	124% 50-150	
B150974-DUP1	Duplicate (1525011-01) As(III)	14.95		13.00	mg/kg		14% 35
B150974-PS1	Post Spike (1525011-01) As(III)	14.95	24.62	39.43	mg/kg	99% 65-135	

## Accuracy & Precision Summary

**Batch:** B150975  
**Lab Matrix:** Soil/Sediment  
**Method:** SM 2540G

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B150975-DUP1	Duplicate (1525011-01) %TS	65.61		65.78	%		0.3% 15

## Method Blanks & Reporting Limits

Batch: B150974

Matrix: Soil/Sediment

Method: EPA 1632

Analyte: As(III)

Sample	Result	Units		
B150974-BLK1	0.051	mg/kg wet		
B150974-BLK2	0.046	mg/kg wet		
B150974-BLK3	0.047	mg/kg wet		
B150974-BLK4	0.049	mg/kg wet		
Average:	0.048		Standard Deviation:	0.002
			Limit:	0.027
			MDL:	0.040
			MRL:	0.120

## Method Blanks & Reporting Limits

**Batch:** B150975  
**Matrix:** Soil/Sediment  
**Method:** SM 2540G  
**Analyte:** %TS

Sample	Result	Units	
B150975-BLK1	0.00	%	
B150975-BLK2	0.00	%	
Average:	0.00		MDL: 0.36
	Limit:	1.20	MRL: 1.20

## Sample Containers

Lab ID: 1525011-01 Sample: 2076025 002	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015 pH Ship. Cont. cooler
Lab ID: 1525011-02 Sample: 2076025 004	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015 pH Ship. Cont. cooler
Lab ID: 1525011-03 Sample: 2076025 006	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015 pH Ship. Cont. cooler
Lab ID: 1525011-04 Sample: 2076025 008	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015 pH Ship. Cont. cooler
Lab ID: 1525011-05 Sample: 2076025 010	Des Container A Client-Provided	Size 8oz jar	Lot not provided	Report Matrix: Soil Sample Type: Sample Preservation none	P-Lot none	Collected: 06/09/2015 Received: 06/16/2015 pH Ship. Cont. cooler

## Shipping Containers

### cooler

Received: June 16, 2015 9:05  
Tracking No: 773836255661 via FedEx  
Coolant Type: Ice  
Temperature: 0.1 °C

Description: cooler  
Damaged in transit? No  
Returned to client? No

Custody seals present? No  
Custody seals intact? No  
COC present? Yes



**Analytical  
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## CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT /  
SAMPLER. INSTRUCTIONS ON THE BACK.

COC #:		BRL Report 152504	
ALSI Quote #:		1	
Receipt Information (Completed by Receiving Lab) Cooler Temp: _____ Therm. ID: _____ No. of Coolers: _____ Y N Initial			
Custody Seals Present? (if present) Seals intact? Received on ice? COC Labels Complete/Accurate? Cont. In Good Cond? Correct Containers? Correct Sample Volumes? Correct Preservation? Headspace/Voidities? Lauren's tracking #: _____			
ANALYSES/METHOD REQUESTED Enter Number of Containers Per Sample or Field Results Below.			
Subcontract: Brooks Rand Labs 3958 6th Avenue NW Seattle, WA 98107			
Traveler's Arsenic			
Matrix			
"Matrix" will appear on the lab report)			
Sample Date Time G or C			
2076025 002 6/9/15 1115 G SO 1			
2076025 004 6/9/15 0915 G SO 1			
2076025 006 6/9/15 1300 G SO 1			
2076025 008 6/9/15 1005 G SO 1			
2076025 010 6/9/15 1015 G SO 1			
Project Comments: LOGGED BY (Signature): _____			
REVIEWED BY (Signature): _____			
Relinquished By / Company Name Date Time Received By / Company Name Date Time			
1 C. 6/16/15 10:15 AM 6/16/15 10:15 AM			
3 4			
5 6			
7 8			
9 10			
ALSI Field Services: <input type="checkbox"/> Pickup <input type="checkbox"/> Labor <input type="checkbox"/> Composite Sampling <input type="checkbox"/> Rental Equipment Other: _____			
Standard <input type="checkbox"/> Deliverables <input type="checkbox"/> CCLike <input type="checkbox"/> USACE <input type="checkbox"/>			
State Samples Collected In USACE <input type="checkbox"/> Navy <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/>			
Special Processing Sample Disposal <input type="checkbox"/> Lab <input type="checkbox"/> Special <input type="checkbox"/>			
EDDs: Format Type- Yes <input type="checkbox"/> PWISID# _____			
*G=Grab; C=Composite    **Matrix = Air; DW=Drinking Water; GW=Groundwater; Oil=Oil; SL=Sludge; SO=Soil; WP=WP; WW=Wastewater Copies: WHITE - ORIGINAL CANARY - CUSTOMER MAILING PINK - FILE GOLDENROD - CUSTOMER COPY			